

Kathryn Blecher

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EDUCATION

B.S., Computer Science

Stony Brook University, Fall 2016

SKILLS & ABILITIES

- **Programming Languages:** Proficient in Java, C++, Python, Javascript; Familiar with C, C#, Objective-C, Swift, ASP.NET
- **Databases:** Microsoft SQL Server, Cassandra, Redis, MySQL, PostgreSQL, Snowflake, Databricks, Sybase
- **Tools/Platforms:** Claude, Azure DevOps, VSTS, Amazon Web Services, Jenkins, Kafka, ServiceNow
- **Certifications:** AWS Certified Solutions Architect - Associate

EXPERIENCE

Senior Software Engineer

Capital One, 1/2025 – present

- Manage certificate tooling platform that provides TLS Certificate creation, auto-renewal, and management across the organization.
- Maintain Lambda functions that scan and probe company-owned sites to read certificate data, track expiration dates, and alert as certificates near expiry
- Serve as the team's "vulnerability champion" — maintain compliance for vulnerabilities, dependencies, and security processes such as 90-day secret rotation, IAM control renewals, and cleanup of expired resources.
- Introduced Renovate across team repositories, reducing time spent tracking and patching vulnerable dependencies by >60%.
- Implemented a case management system to automatically open tickets with teams owning expiring certificates, and escalate based on days to expiry, reducing manual reachouts and alerts.

Senior Software Engineer

Bloomberg LLP, 8/2022 – 11/2024

- Led an epic to resolve a critical vulnerability impacting execution management services that caused a complete service outage.
- Enhanced low latency code on distributed systems by upgrading single threaded services to multi threaded.
- Directed the deprecation of legacy databases, collaborating with multiple teams to design solutions.
- Mentored interns on a project decoupling a tightly coupled codebase, reducing release delays and pipeline blockages.

Software Developer

Applied Visions Inc., 9/2017 – 5/2022

- Developed and updated iOS and Android mobile applications based on customer specifications, including setup of Firebase for analytics and push notifications.
- Designed and implemented cloud architectures based on customer requirements. Automated build and release pipelines using Azure Devops, and integrated unit, functional, and integration tests.
- Implemented cost-saving automations, reducing cloud costs by up to 65% for large-scale customers.
- Developed and maintained mobile and web SDKs, facilitating distribution through CocoaPods, Gradle, and NPM.
- Managed and optimized complex Azure cloud infrastructures, including data warehouses, event hubs, data factories, and stream analytics jobs.